PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP. NOTIFICATION OF TRANSMITTAL OF 4365 EXECUTIVE DRIVE, SUITE 1100 THE INTERNATIONAL SEARCH REPORT AND SAN DIEGO, CA 92121-2133 THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) 20 JUL 2005 Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below UCSD1690-1WO International application No. International filing date PCT/US04/29880 (day/month/year) 10 September 2004 (10.09.2004) Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Burean. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the international Bureau as provided in Rules 90bis. 1 and 90bis. 3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide. Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1600 Facsimile No. (703) 305-3230

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference UCSD1690-1WO	FOR FURTHER see Form PCT/ISA/220 as well as, where applicable, item 5 below.		
International application No. PCT/US04/29880	International filing date (day/month/year 10 September 2004 (10.09.2004)	nonth/year) (Earliest) Priority Date (day/month/year)	
Applicant THE REGENTS OF THE UNIVERSITY OF	OF CALIFORNIA		
This international search report consists of the Report 1. Basis of the Report a. With report to the language, the language in which it was filed, us franked to this Author b. With regard to any nucleotic control of the Report of the Repo	transmitted to the International Bureau. If a total of	basis of the international application in the	
5. With regard to the abstract, the text is approved as subm the text has been established may, within one month from	, according to Rule 38.2(b), by this Author	ity as it appears in Box. No. IV. The applicant arch report, submit comments to this Authority.	
as suggested by the	authority, because the applicant failed to su authority, because this figure better characters.	sggest a figure.	

INTERNATIONAL SEARCH REPORT

International application No.

		PCT/US04/29880		
A. CLASSII	FICATION OF SUBJECT MATTER			
IPC(7) : A61K 31/70; C07H 15/00				
US CL : 514/32, 37, 41, 459, 469; 536/13.2, 13.3, 13.7, 14, 15, 18.5				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum donur	mentation searched (classification system followed b			
			1	
0.5. ; 514/3	32, 37, 41, 459, 460; 536/13.2, 13.3, 13.7, 14, 15, 1	8.5	1	
Documentation	searched other than minimum documentation to the	extent that such documents are included if	a the fields speeched	
		order than boot decarring are moraged to	in the ficials searched	
Electronic data l	base consulted during the international search (nam	a of data base and subsequentially ac-		
CAS ONLINE	(man	or data date and, where practicable, scal	cii iciilis uscu)	
	MENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.	
ΧU	JS 4,749,800 A (JOBE et al) 7 June 1988 (07.06.19	88), column 2, lines 49-68 and column	1-5, 7 and 9	
3	l, lines 1-4.	,,, 17-00 mile column	1-5, / 11,0 9	
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Further do	ocuments are listed in the continuation of Box C.	See patent family annex.		
	ial categories of cited documents:			
	me own firsten or offed documents;	"T" Inter document published after the inter and not in conflict with the application b	national filing date or priority date	
"A" document def	fining the general state of the set which is not considered to be of	principle or theory underlying the invent	tion	
particular rele	evance			
"B" earlier spolies	stion or petent published on or after the international filing date	"X" document of particular relevance; the ch considered novel or cannot be considered		
	· · · · ·	when the document is taken alone	and an annual state of the stat	
"L" document whi	nich may throw doubts on priority claim(s) or which is cited to			
establish the p specified)	publication date of another citation or other special reason (as	"Y" document of particular relevance, the cli considered to involve an inventive step		
	· ·	with one or more other such documents,	such combination being obvious	
"O" document refe	erring to an oral disclosure, use, exhibition or other means	to a person skilled in the art		
"P" document mil	blished prior to the international filing date but later than the	"&" document member of the same patent fa	umibe f	
priority date o	daimed	 document metaboli or the same bates) is 		
Data of the	1 1-4 6-4 4 4 1 1	16. 6 9. 63		
Date of the actu	al completion of the international search	Date of mailing of the international sear	ch report	
13 July 2005 (13	3.07.2005)	20 00 200		
13 July 2005 (13.07.2005)				
	ing addrage of the ISA/LIS	Authorized officer () (CUU.)		
Name and maili	ing address of the ISA/US	Authorized officer Collins	Bell-tour	
Name and maili Mail St	top PCT, Attn: ISA/US	James Wilson ELLI PESELEN	Bell-town	
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Telephone No. (571) 272-1600

Form PCT/ISA/210 (second sheet) (January 2004)

DATENT COOPEDATION TOFATS

From the	ONAL SEARCH		ORTTY	KATION IKE.	AII
NTERNATIONAL SEARCHING AUTHORITY To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE. SUITE 1100		PCT			
SAN DIEGO, CA 92121-2133			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	20 JUL 2005
Applicant's or agent's file reference UCSD1690-1WO				FOR FURTHER ACTION See paragraph 2 below	
Internationa	l application No.		International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US04/2			10 September 2004 (10.0		12 September 2003 (12.09.2003)
Internationa	l Patent Classific	cation (IPC)	or both national classificat	ion and IPC	
IPC(7): A61 Applicant	IK 31/70; C07H	15/00 and US	S CL: 514/32, 37, 41, 459,	460; 536/13.2, 13.3,	13.7, 14, 15, 18.5
••					
THE REGE	NTS OF THE U	NIVERSITY	OF CALIFORNIA		
1. This op	inion contains ir	ndications rel	ating to the following item	is:	
\boxtimes	Box No. I Basis of the opinion				
	Box No. II	Priority			
닏	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement			
\sqcup	Box No. VI	Certain doc	Certain documents cited		
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain obs	ervations on the internatio	nal application	
2. FURT	HER ACTIO	N			
Internal Author	tional Prelimina ity other than th	ry Examinir is one to be	g Authority ("IPEA") ea	scept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an se International Bureau under Rule 66.1bis(b) ered.
Of Form	written reply to	ogether, wher or before the	e appropriate, with amend expiration of 22 months fr	lments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/US Authorized officer			Valerie Bell-Harris		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents				James Wilson	ELL, PESELET
P.O. Box 1450 Alexandria, Virginia 22313-1450				Telephone N-	GP
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571) 27 2-1600					

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

		PC.170504/29880		
Box N	o. I Basis of this opinion			
 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 				
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the in tion, this opinion has been established on the basis of:	ternational application and necessary to the claimed		
a.	type of material			
	a sequence listing			
	table(s) related to the sequence listing			
ь.	format of material			
	in written format			
	in computer readable form			
c.	time of filing/furnishing			
	contained in international application as filed.			
	filed together with the international application in computer readal	ble form.		
	furnished subsequently to this Authority for the purposes of search			
3. 🔲	In addition, in the case that more than one version or copy of a sequence or furnished, the required statements that the information in the subsect application as filed or does not go beyond the application as filed, as app	ment or additional copies is identical to that in the		
4. Addit	ional comments:			

WRITTEN OPINION OF THE

International application No. PCT/US04/29880

INTERNATIONAL SEARCHING	AUTHORITY			
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 6, 8 and 10-30	YES		
	Claims 1-5, 7 and 9	NO		
Inventive step (IS)	Claims 6, 8 and 10-30	YES		
	Claims 1-5, 7 and 9	NO		
Industrial applicability (IA)	Claims 1-30	, ma		
massian approximity (121)	Claims 1-30 Claims NONE	YES		
	Claus NONE	NU		
2. Citations and explanations:				
Claims 1-5, 7 and 9 lack novelty under PCT Article : disclose the claimed compounds in column 2, lines 4	3(2) as being anticipated by Jobe et al (U.S. Put 9-68 and column 3, lines 1-4.	ent No. 4,749,800). Jobe et al		
Claims 6, 8 and 10-30 meet the criteria set out in PC claimed compositions and methods.	F Article 33(2)-(3), because the prior art does no	t teach or fairly suggest the		
Claims 1-30 meet the criteria set out in PCT Article : be made or used in industry.	3(4), and thus meet industrial applicability beca	use the subject matter claimed can		
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NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filling of unrendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Frency, the Regulations and the Administrative Interes are based on the requirements of the Patent Cooperation Frency, the Regulation and the Administrative Interest and Cooperation Frency (Interest Patents of Patents and Interest Patents and Interest

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applican has, after having received the international search report, one opportunity to amend the claims of the international application. It should be towere the emphasized that, since all parts of the international application (claims description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file unemdenters of the claims under Article 19 except where, e.g., the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable. Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is can:elled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 2050b).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French, the

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying

- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
- "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13. 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments cnay be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amoended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

It at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international perliminary examination has already been submatted the applicant must preferably, as the time of filing, the amendments (and any statement) with the international Bureau, also file with the International Perliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PC-17/PE-A401).

Consequence with regard to translation of the international application for entry into the national phase

The applican's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide,